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(54) Title: ANTIMICROBIAL HISTONE H1 COMPOSITIONS, KITS, AND METHODS OF USE THEREOF

(57) Abstract: The invention includes antibiotic pharmaceutical compositions comprising eukaryotic histone H1 protein and meth-
ods of using eukaryotic histone H1 protein to kill or to inhibit the growth of microorganisms, including, but not limited to, human
pathogenic bacteria. The invention further includes a eukaryotic histone H1-containing animal feed and methods of improving
growth of an animal by supplying the feed to the animal. The invention still further includes a kit comprising a eukaryotic histone
H1-containing antibiotic pharmaceutical composition and an instructional material which describes the use of the composition. In
addition, the invention includes a vaccine comprising a eukaryotic histone H1 protein and a method of vaccinating an animal using
the vaccine.

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